

**FREDERICK COUNTY
DIVISION OF UTILITIES & SOLID WASTE MANAGEMENT
FREDERICK, MARYLAND**

PUBLIC IMPROVEMENTS AGREEMENT

**CONSTRUCTION ESTIMATE FORM
FOR
SANITARY SEWER AND WATER MAINS**

Project Name

FREDERICK COUNTY CONTRACT NO. _____

Prepared by: _____

ESTIMATE FORM
CONTRACT NO. _____

Date: _____

Items required by the construction project, but not listed, may be added as appropriate.

ITEM NO.	DESCRIPTION	QUANT. (Approximate)	UNITS	UNIT PRICE	TOTAL PRICE
	<u>SEWER</u>				
101.	Furnish and install sanitary sewer, including excavation, backfill, fittings, testing, and appurtenances.				
	a. 6-inch diameter PVC pipe		LF		
	b. 8-inch diameter PVC pipe		LF		
	c. 10-inch diameter PVC pipe		LF		
	d. 12-inch diameter PVC pipe		LF		
102.	Furnish and install Frederick County standard manhole complete, including steps, frame, cover, stubs, plugs, and testing.				
	a. 48-inch standard		EA		
	b. 48-inch std. w/watertight frame & cover		EA		
	c. 48-inch shallow		EA		
	d. 48-inch shallow w/watertight frame & cover		EA		
	e. 72-inch standard		EA		
	f. 72-inch std. w/watertight frame & cover		EA		
	g. 48-inch standard over existing line		EA		
103.	Furnish and install manhole drop connection per Frederick County Standards				
	a. Type "E"		EA		
	b. Type "F"		EA		

ESTIMATE FORM
CONTRACT NO. _____

ITEM NO.	DESCRIPTION	QUANT. (Approximate)	UNITS	UNIT PRICE	TOTAL PRICE
	<u>SEWER</u>				
104.	Furnish and install 6-inch sanitary sewer house connection Types "A" and "B", including excavation, backfill, field connection, fitting, and cleanout.				
	a. Single		EA		
	b. Double		EA		
105.	Furnish and install 6-inch sanitary sewer drop house connection, including excavation, backfill, concrete, field connection, fitting, and cleanout per Frederick County Standards				
	a. Type "C"		EA		
	b. Type "D"		EA		
106.	Furnish and install sanitary sewer main line cleanout complete, including excavation, backfill, concrete frame and cover, per Frederick County Standards				
	a. 8-inch diameter				
	b. 10-inch diameter				
	c. ____-inch diameter		EA		
107.	Furnish and install steel casing with carrier pipe, complete per Frederick County Standard 215.				
	a. For 6-inch carrier pipe		LF		
	b. For 8-inch carrier pipe		LF		
	c. For 10-inch carrier pipe		LF		
	d. For 12-inch carrier pipe		LF		
	e. For ____-inch carrier pipe		LF		
108.	Perform televising of sewer main and laterals		LS		

ESTIMATE FORM
CONTRACT NO. _____

ITEM NO.	DESCRIPTION	QUANT. (Approximate)	UNITS	UNIT PRICE	TOTAL PRICE
	<u>WATER</u>				
301.	Furnish and install ductile iron pipe water main, including excavation, backfill, fittings, caps, buttresses, and anchors.				
	a. 3-inch diameter		LF		
	b. 4-inch diameter		LF		
	c. 6-inch diameter		LF		
	d. 8-inch diameter		LF		
	e. 10-inch diameter		LF		
	f. 12-inch diameter		LF		
	g. ____-inch diameter		LF		
302.	Furnish and install gate valve in water main, including strapping, tie rods, valve box, and lid.				
	a. 4-inch diameter		EA		
	b. 6-inch diameter		EA		
	c. 8-inch diameter		EA		
	d. 10-inch diameter		EA		
	e. 12-inch diameter		EA		
	f. ____-inch diameter		EA		
303.	Furnish and install 6-inch fire hydrant and valve, including excavation, backfill, tee, pipe, buttresses, and anchors.				
	a. Standard fire hydrant		EA		
	b. Dewatering fire hydrant		EA		

ESTIMATE FORM
CONTRACT NO. _____

ITEM NO.	DESCRIPTION	QUANT. (Approximate)	UNITS	UNIT PRICE	TOTAL PRICE
	<u>WATER</u>				
304.	Furnish and install Frederick County standard cap and blow-off for water main, including excavation, backfill, fittings, gate valve, valve boxes, lids, buttress complete.				
	a. Standard 2-inch Blow-off				
	b. Modified Blow-off w/4-inch valve		EA		
305.	Furnish and install 2-inch automatic air release valve, including excavation, backfill, manhole, appurtenances, complete per Frederick County Standards			EA	
306.	Furnish and install Frederick County standard water house connection, including excavation, backfill, tapping, fittings, Type "k" copper tubing, meter vault, and lids, complete per Frederick County Standards				
	a. 3/4-inch Single Water Meter Setting		EA		
	b. 1-inch Single Water Meter Setting		EA		
	c. 3/4-inch Double Water Meter Setting		EA		
	d. 1-inch Double Water Meter Setting		EA		
	e. 1.5-inch Single Water Meter Setting		EA		
	f. 2-inch Single Water Meter Setting		EA		
307.	Furnish and install compound detector meter installation, complete per Frederick County Standards 112 and 112-A.				
	a. 3-inch meter installation		EA		
	b. 4-inch meter installation		EA		
	c. 6-inch meter installation		EA		
	d. 8-inch meter installation		EA		

ESTIMATE FORM
CONTRACT NO. _____

ITEM NO.	DESCRIPTION	QUANT. (Approximate)	UNITS	UNIT PRICE	TOTAL PRICE
	<u>WATER</u>				
308.	Furnish and install ductile iron tapping sleeve and valve, complete including excavation, backfill, fittings, valve box and lid, and buttresses, per Frederick County Standards				
	a. 4-inch tapping sleeve and valve		EA		
	b. 6-inch tapping sleeve and valve		EA		
	c. 8-inch tapping sleeve and valve		EA		
	d. 10-inch tapping sleeve and valve		EA		
	e. ____-inch tapping sleeve and valve		EA		
309.	Furnish and install steel casing with carrier pipe, complete per Frederick County Standards				
	a. For 4-inch carrier pipe		LF		
	b. For 6-inch carrier pipe		LF		
	c. For 8-inch carrier pipe		LF		
	d. For 10-inch carrier pipe		LF		
	e. For 12-inch carrier pipe		LF		
	f. For ____-inch carrier pipe		LF		
310.	Conduct Bacteriological Testing of Water Main		LS		

ESTIMATE FORM
CONTRACT NO. _____

ITEM NO.	DESCRIPTION	QUANT. (Approximate)	UNITS	UNIT PRICE	TOTAL PRICE
	<u>MISCELLANEOUS</u>				
501.	Removal and replacing existing pavement for County highway, State highway, per Frederick County Specifications Section 2610 and Standards				
	a. County Highway		SY		
	b. Maryland State Highway		SY		
502.	Furnish and install slope and/or channel protection per Frederick County Specification Section 2230 and Standards				
	a. Rip Rap		SY		
	b. Grouted Rip Rap		SY		
	c. Concrete		SY		
	d. Gabions		SY		
503.	Furnish and install concrete encasement and/or cradle, per Frederick County Standards		CY		

ESTIMATE FORM
CONTRACT NO. _____

ITEM NO.	DESCRIPTION	QUANT. (Approximate)	UNITS	UNIT PRICE	TOTAL PRICE
-------------	-------------	-------------------------	-------	---------------	----------------

CONTINGENT ITEMS

601. Excavation and stone backfill below subgrade, per
Frederick County Specifications Section 2200

CY

602. Test pit excavation and backfill

CY

TOTAL CONSTRUCTION ESTIMATE:

\$ _____
(Figures)

Add: Inspection Cost estimate

\$ _____

Add 15 percent contingency

\$ _____

TOTAL AMOUNT TO BE GUARANTEED

\$ _____

